MoniMax7600I
Installation Manual

HYOSUNG
NAUTILUS HYOSUNG INC.

Revision Record

Date	Page	Version	Description of Change
May 2010	All	1.0	New Publication
June 2010	12~13 22~23	1.1	Modifying AC Inlet Box. Adding how to install the topper on the ATM.

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Introduction

The MoniMax7600I ATM is a fully automated, stand-alone, drive-up terminal which can perform a wide range of self-service transactions.
Consumers can carry out transactions, receive paper currency and transaction records (statements and receipts).
The MoniMax7600I ATM is installed on a new or existing concrete island. The terminal is weather-sealed to allow for exposure to the weather.

This manual is designed to provide installation guide for the MoniMax7600I ATM and provide detailed description of the following:

- Information for installation
- Environmental Specification
- Power Specification

All measurements in this manual are in metric and U.S. standards. Metric measurements are first, U.S. measurements are second and in parentheses.

All information described in this manual is a licensed product of Nautilus Hyosung Corporation.
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Warning Signs

Common Precautions for Safety



Precautions outlined this manual provide information on safe and proper handling of the product. Non-compliance of the precautions may result in injury or damage to the product.

This precaution symbol with sample term tells you safety warnings during equipment handlings.

Please read the following instructions before operating equipment.

- Operate equipment in the order outlined in this manual.
- Follow precautions indicated in this manual, as well as the equipment itself. Failure to properly address these precautions may lead to injury or damage to the product.
- Avoid operations not addressed in this manual.
- If you cannot remedy system problems using the methods outlined in this manual, please refer to contact information listed in the manual.
- Any change or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Description of Warning Signs

Sign	Description
	**Risk Of Electric Shock** • Do not remove cover. Only a maintenance engineer should open the cover. • To avoid risk of electric shock, do not touch. • Make sure to turn off the power before servicing the equipment.
	**Hot Surface** • Do not touch the equipment when it is on. • The equipment can get extremely hot and may cause a burn. • Make sure to close the cover before running the equipment.
	**Moving** • The equipment is heavy. Make sure at least 2 people lift or move the equipment • Do not attempt to move the equipment alone. You may be injured from dropping the heavy equipment
	**Risk of Injury** • Always lock Push-Plate before adding cash to cassette. • Refer to user manual for details.
	**Risk of Injury** • Turn off the machine before performing any service work. • Use caution to avoid injury
	**Handling Heavy Equipment** • You may be injured if machine is dropped or mishandled. • Use caution when moving the machine to avoid injury
	**Risk of Injury** • Use caution when operating the push-plate to avoid injury. • The covers should be locked to avoid injury. • Refer to operating manual before installing the cassette.

Sign	Description
	**Fire Hazard** • Place the equipment in an area away from any combustible materials. • The equipment may catch on fire from overheating or short circuit of the power supply unit.
	**Disassembly** • Do not disassemble or modify the equipment unless you are a certified engineer. • Contact the service center for maintenance, adjustments and repairs. • Improper disassembly may cause fire or electrical shock.
	**Fall down** • Do not place the equipment where the floor cannot sustain the weight of the equipment, or on slanted or unstable surface. • Equipment may fall down and cause injury or damage.
	**Unplug the Equipment** • Stop using the equipment immediately if it smokes, emits an unusual smell, makes abnormal sounds, or if liquids or other foreign materials enter the equipment. • If the above-mentioned abnormalities occur, immediately turn off the power, unplug the equipment and contact the service center. • If you ignore these symptoms, the equipment may catch on fire or cause electric shock.

CAUTION!!

1. TO REDUCE THE RISK OF FIRE, USE ONLY No. 26 AWG OR LARGER TELECOMMUNICATION LINE CORD
2. RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSED OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS
3. FOR PLUGGABLE EQUIPMENT, THE SOCKET-OUTLET SHALL BE INSTALLED NEAR THE EQUIPMENT AN SHALL BE EASILY ACCESSIBLE
4. THE EQUIPMENT IS TO BE SECURED TO THE BUILDING STRUCTURE BEFORE OPERATION

System Configuration

ATM Components

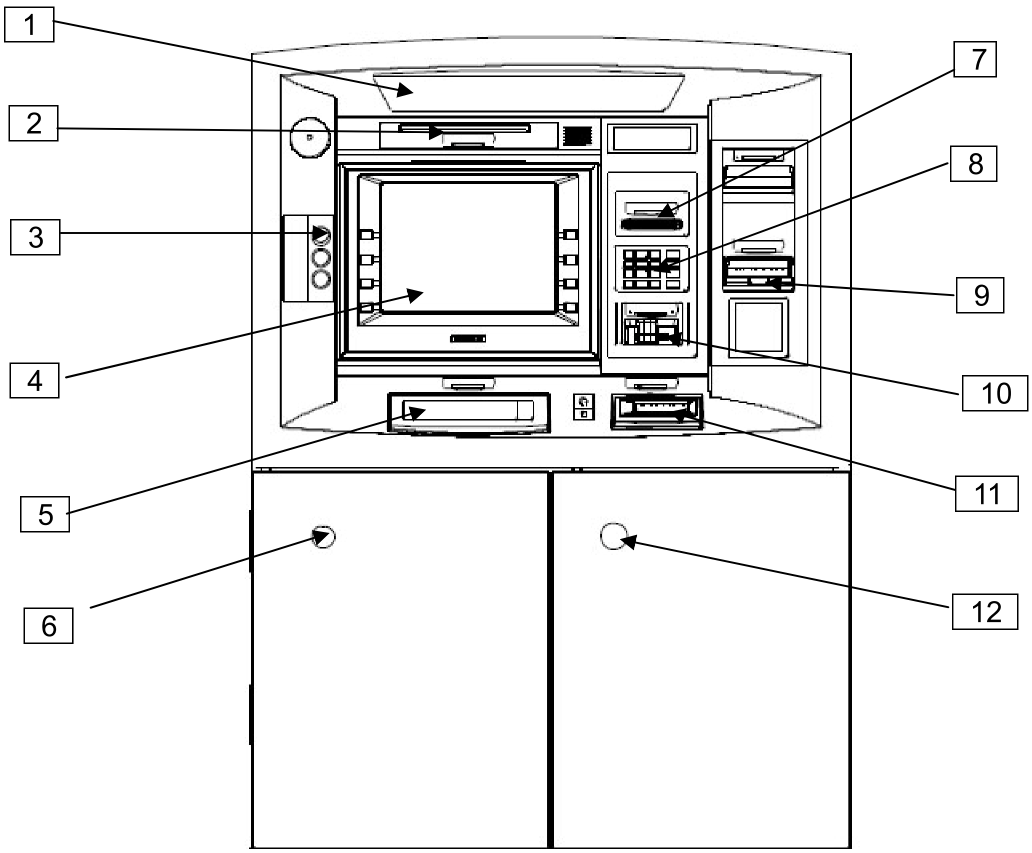


Fig.1 MoniMax7600I Components

1	ATM Signage & Logo	7	Receipt Printer Slot
2	Statement Printer (Option)	8	Encryption PIN Pad
3	Tilting Screen Control Buttons	9	Envelope Stacker (BCA/CSM Upgradeable)
4	Customer Display (Touch or Function key)	10	Card Reader Slot
5	Cash Dispenser Slot	11	Envelope Depositor Slot (BNA Upgradeable)
6	Car Detection sensor	12	Front Door Key

ATM Dimensions

Dimension on Front View

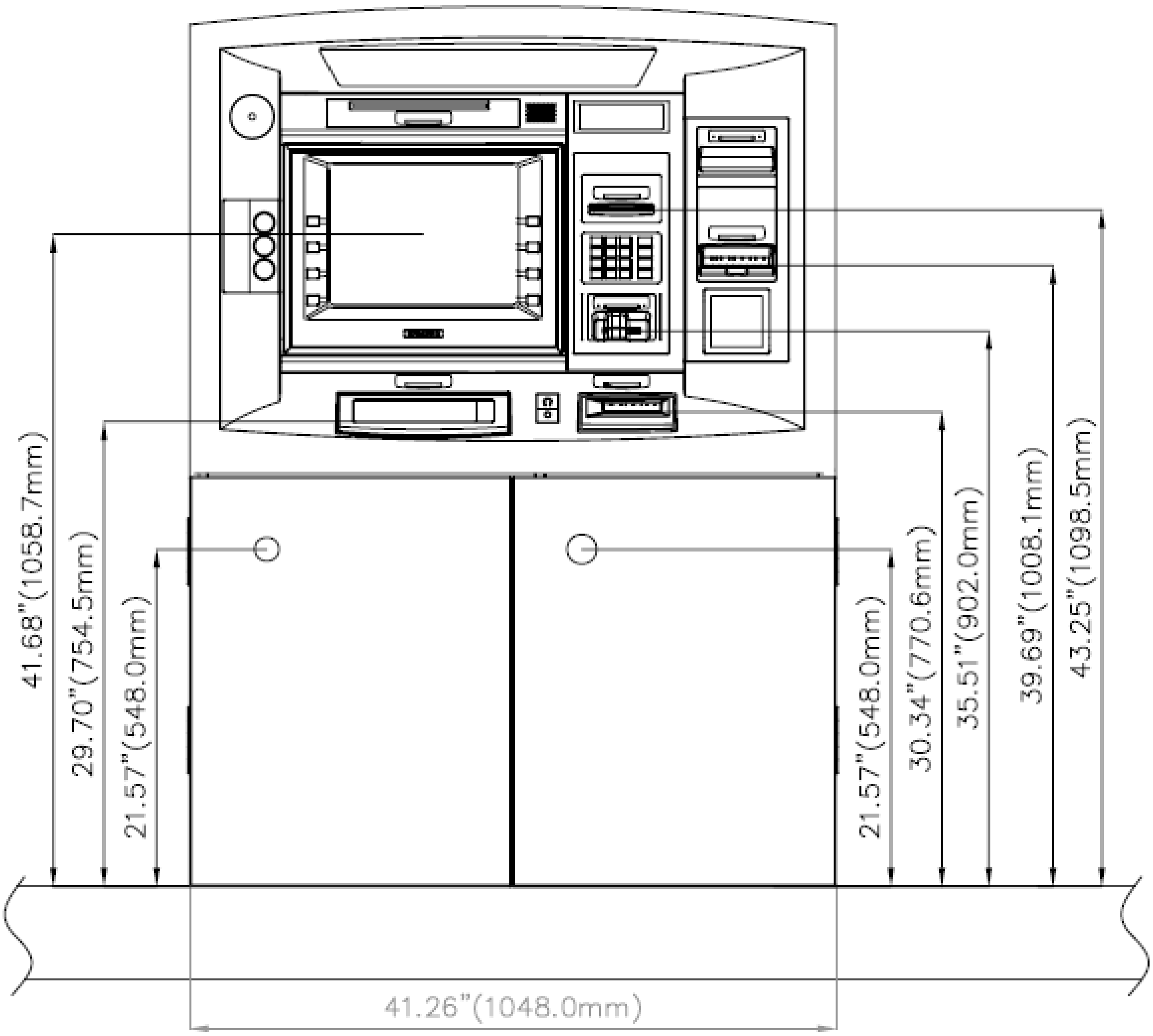


Fig.2 ATM Dimensions on front

Dimension on Side View

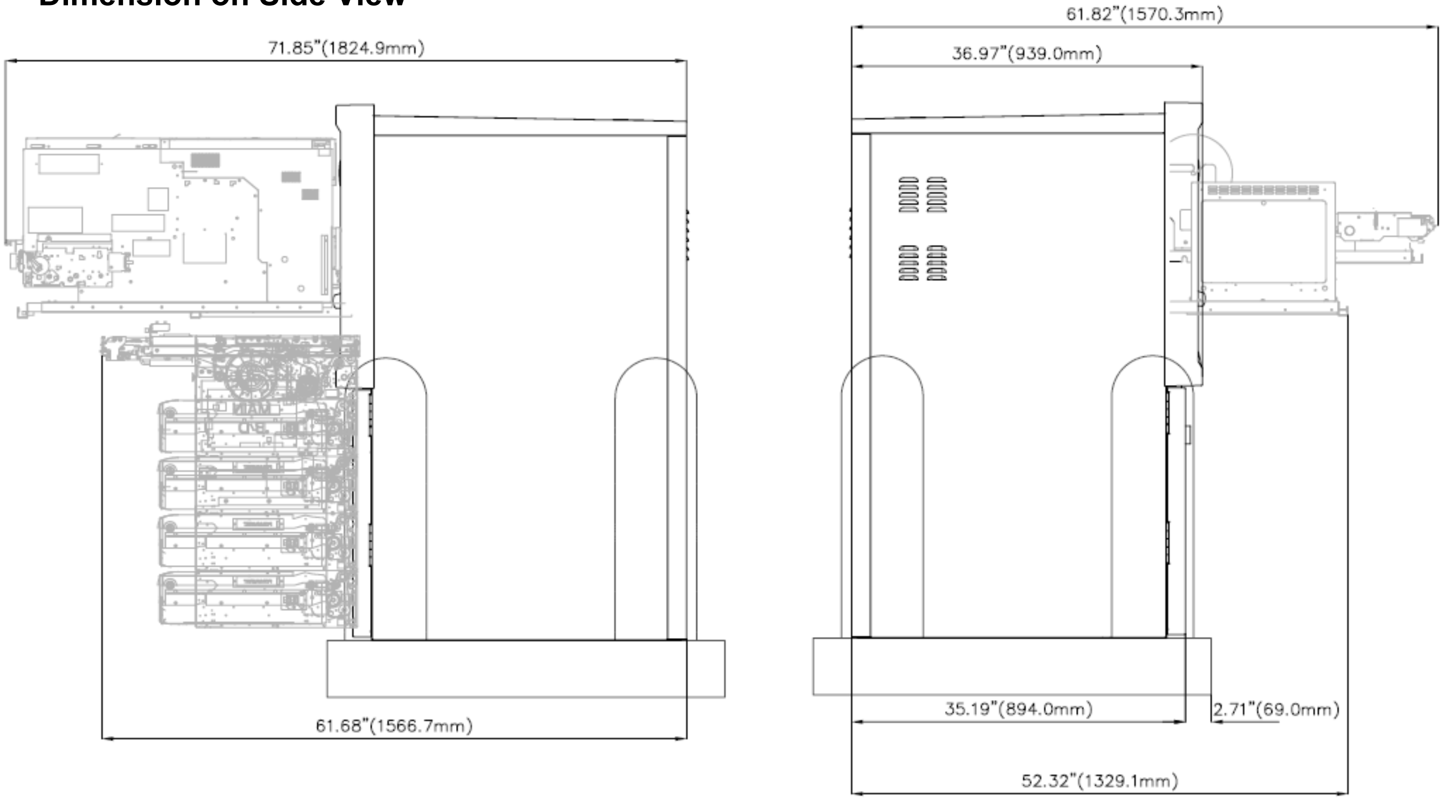


Fig.3 ATM Dimensions on side

Terminal Block Interface

Terminal Block Interface (1)

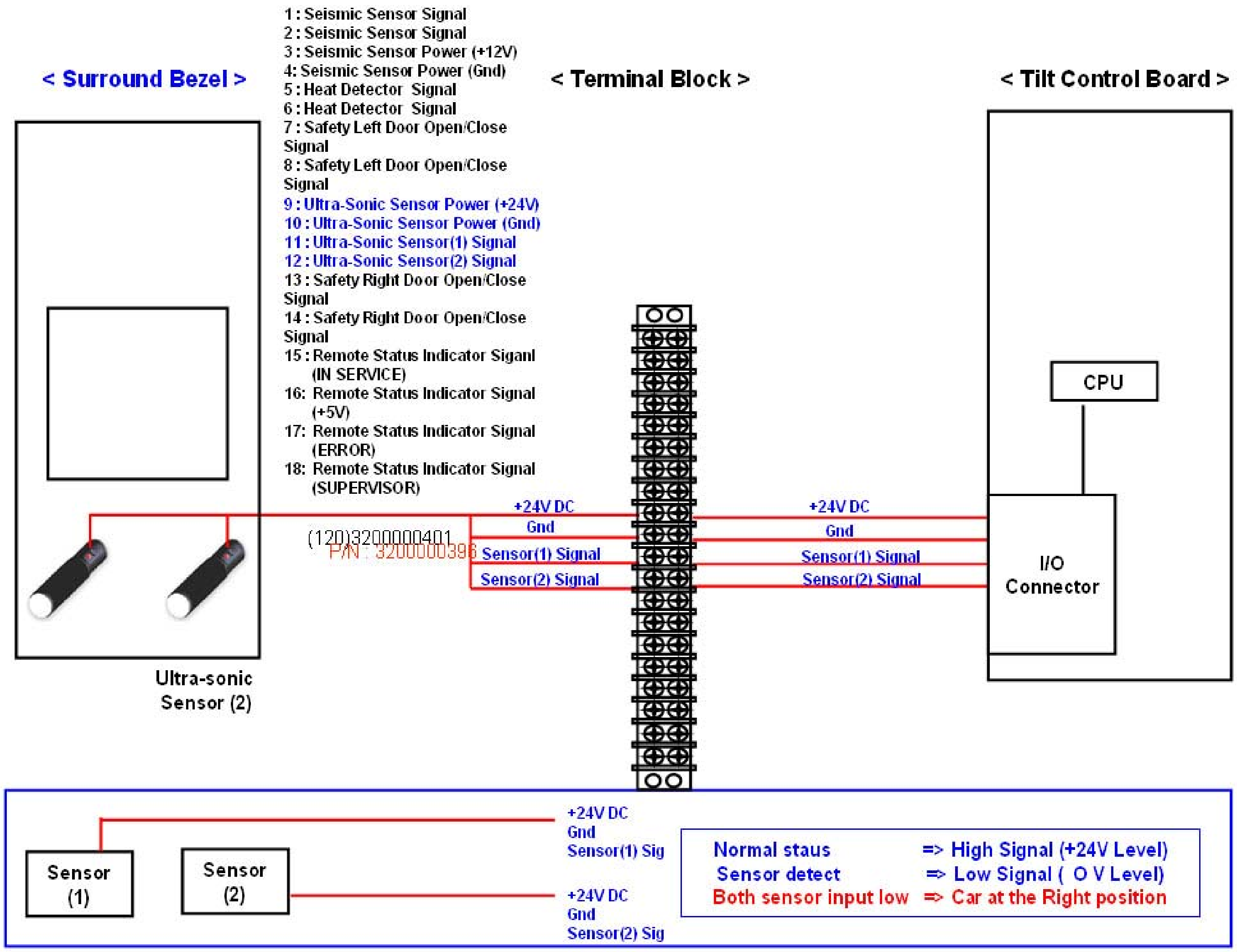


Fig.4 Terminal Block Interface (1)

Terminal Block Interface (2)

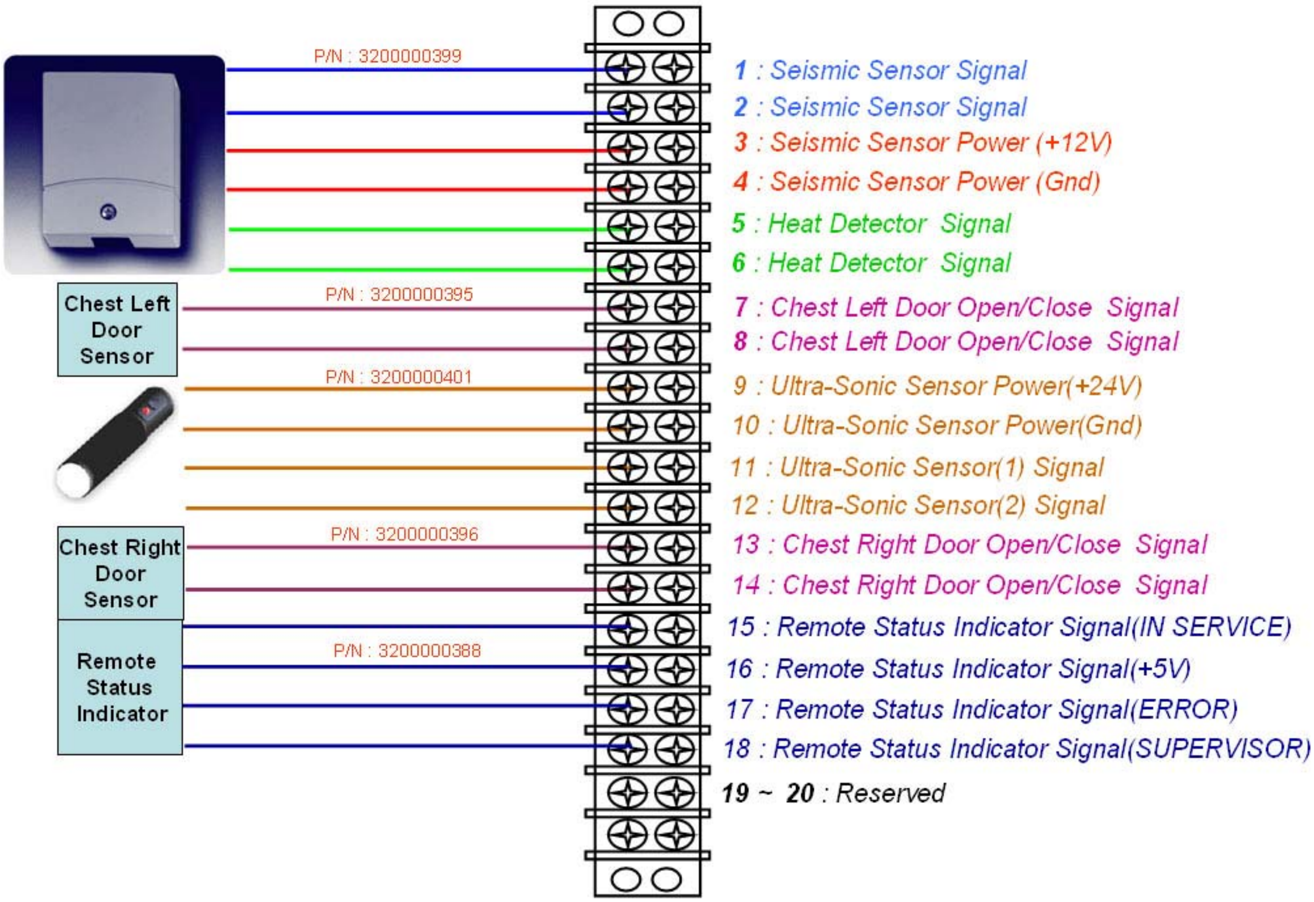


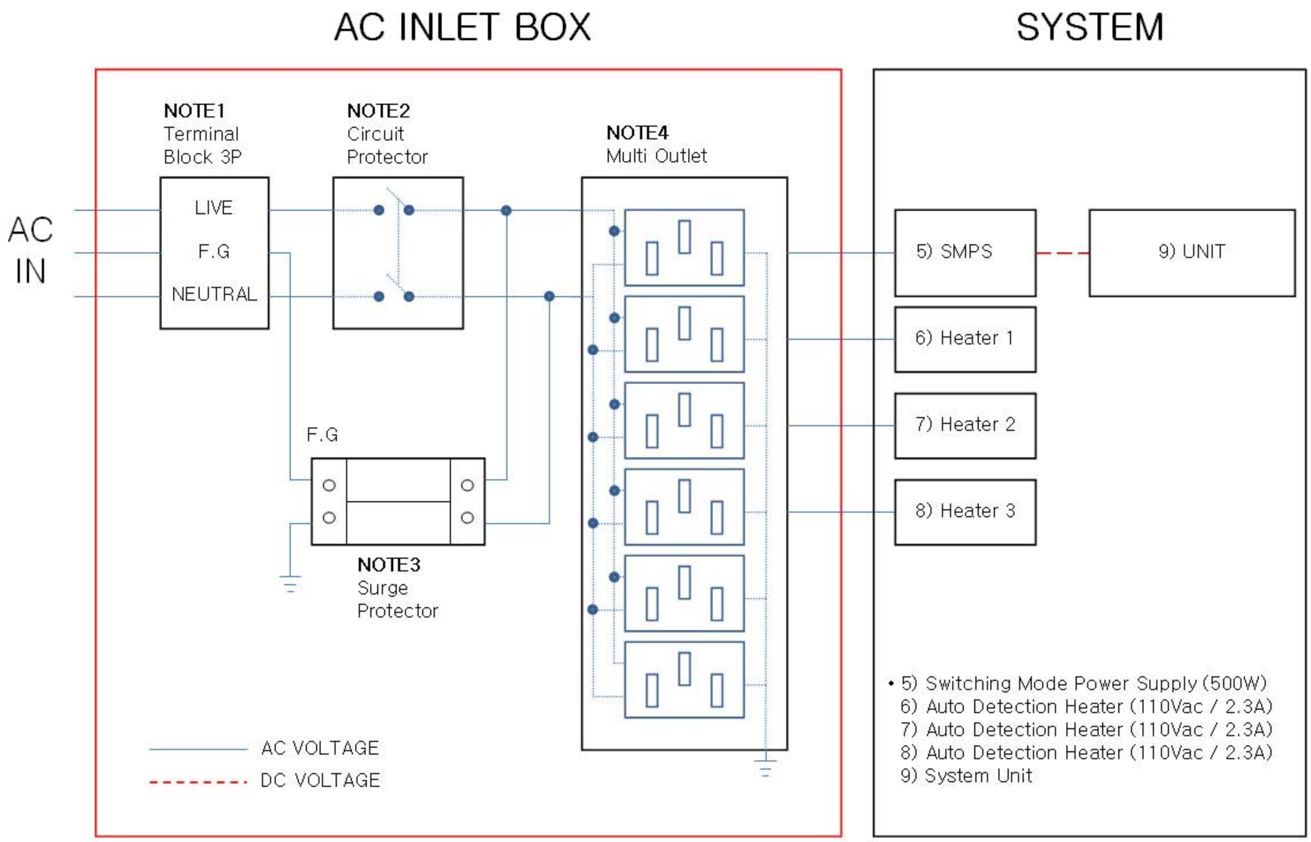
Fig.5 Terminal Block Interface (2)

AC Inlet Box

Function

Secure the stability during AC power input and system operation and distribute the AC power evenly.

Block Diagram



*** AC Inlet Box Specification: 110 Vac 20A**

Fig.6 Block Diagram

Configuration

NOTE1 - Terminal Block : AC Inlet of the AC Inlet Box. (Due to the electrical shock hazard, be sure to connect Power code to AC Inlet Box after removing the Power Cable Plug from AC Source.)

NOTE2 - Circuit Protector : If the over current occurs in the system, block the power to prevent the

system damage.

NOTE3 - Surge Protector : Prevent the system damage from inflow of high voltage such as thunderbolt. (AC Free Voltage can be inputted.)

NOTE4 - Multi Outlet : Distribute AC Power to each system power.

Input Specification

The ATM can operate from the following input mains voltages:

● 100-127Vac at 50/60Hz

The maximum current requirements at the stated input voltages are:

● 20A Max at 100Vac

The maximum inrush current requirements at the stated input voltages are:

● 60A peak at 100Vac

NOTE:

1. Power to the ATM is to be a dedicated 20A service.

2. The ATM must comply with local code requirements and be protected with a 30A Circuit Protector.

3. AC Inlet Box is optimized as above description, therefore, be sure not to install the unit with exceed capacity additionally.

4. The Total amount of each units should not exceed the above AC Inlet Box specification,

Power Cable

The ATM is a fixed wire product and is NOT supplied with a power cable. The ATM is connected to a dedicated 20A circuit via a terminal block connector.

Be sure to check the polarity written on the terminal block of AC Inlet Box and connect the power cable. (cf. N – White Wire, L – Black Wire, F.G – Green/Yellow Wire)

WARNING!!

1. The cable used to connect to the ATM must have copper conductors and must comply with local code requirements.
2. This equipment must be grounded (earthed).
3. Allowable current of the system is 20A. So, if you use the power cable with small capacity, do not operate all three heaters.

System Installation

How to unpack and move the MoniMax7600I into position

Unpack the machine on top of the palette.

- Cut the straps that are fastened around the box with a knife. (refer to Fig.7)
  (Be careful when cutting the straps.)
- Use an appropriate tool to remove the nails from the palette. (refer to Fig.8)
- Remove the lid, then box from the top. Do not discard the packaging materials until you have verified any shipping damage claim. Contact your distributor immediately if you see any shipping damage. Store the box in a safe place to re-use or discard of appropriately.
- Verify the contents carefully with the packing list to be sure all items listed are included. Notify your distributor of any shortages.
- If only the palette needs to be removed, lift the whole machine from the bottom and set it aside.

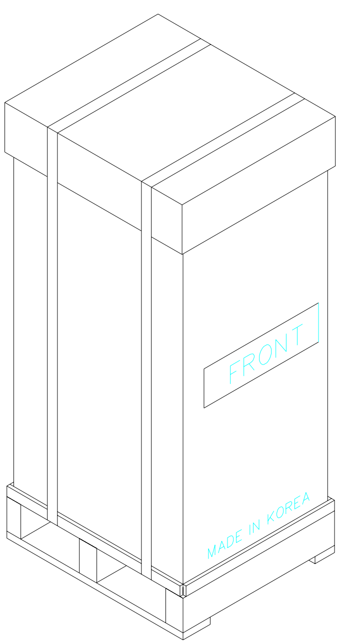


Fig.7

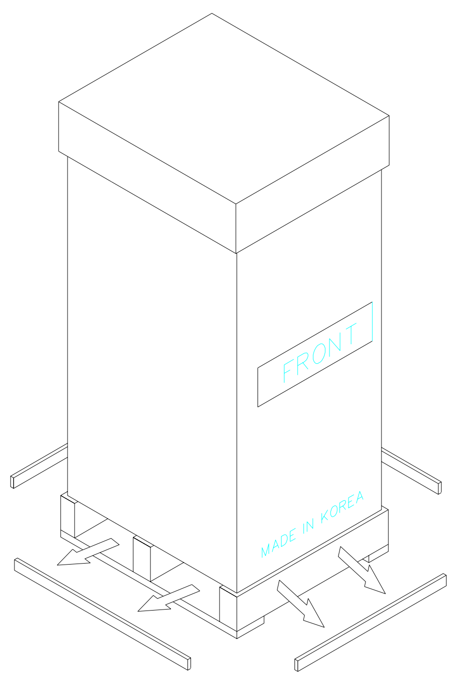


Fig.8

[WARNING!!]

- **Because of the weight and the size of the MoniMax7600I, you need qualified heavy equipment movers to move the MoniMax7600I ATM to its final position. Persons who are not qualified to move heavy equipment are risking severe injury if they attempt to move the MoniMax7600I ATM.**
- **Handle the MoniMax7600I ATM with care when moving it. Do not move the ATM with either the safe door or top chassis open. Ensure that the safe door and top chassis are closed and locked. Keep the ATM upright and do not tilt it.**

Packing Dimensions

In some cases it may be necessary to store the ATM (in its box) before it is installed. See Fig.9 for information on the dimensions and weight of a boxed MoniMax7600I ATM.

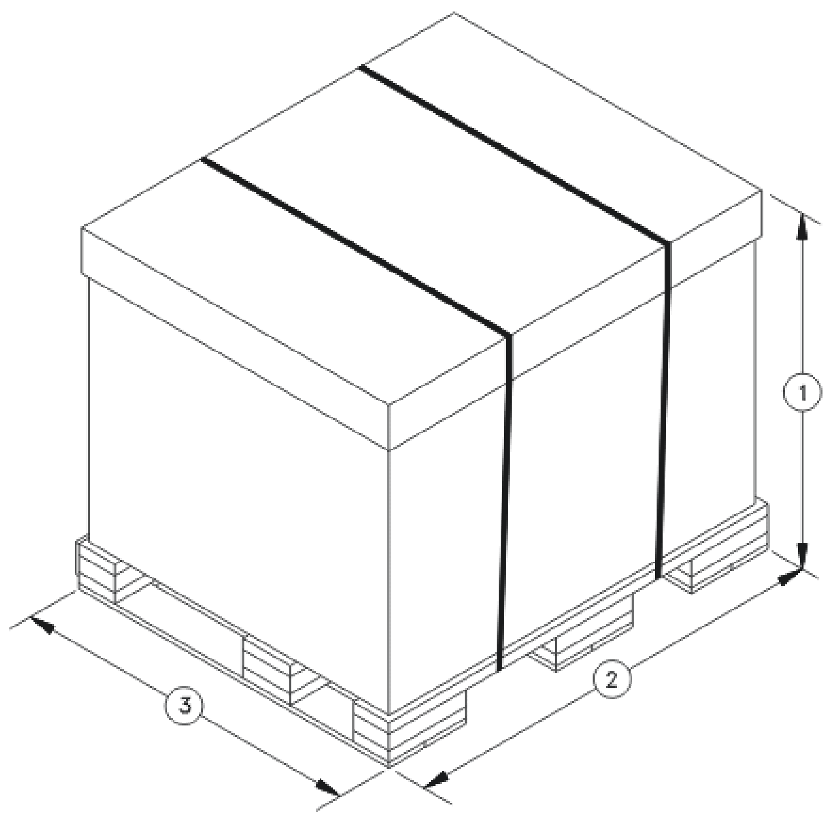


Fig.9 Boxed ATM Dimensions

NOTE:

Approximate weight of a boxed MoniMax7600I ATM is 2755lbs (1250Kg). Actual weight will vary depending on ATM component configuration.

1	1800 mm (70.87 inches)
2	1300 mm (51.18 inches)
3	1170 mm (46.0 inches)

Installation Condition and Space

Following conditions should be met before installing equipment.

- Temperature during operation should be between -35°C ~ +40°C
- Relative humidity should be between 15% ~ 100%.
- Avoid locations where intense direct light is reflected off the LCD screen.
- Avoid locations where strong static electricity can occur.
- The floor must allow easy wheelchair access from the front or the side.
- Space required for servicing the machine should be considered before installation.

NOTE :

1. A canopy is recommended for the convenience of consumers, optimum performance, and ease of servicing.
2. When you determine the location of your MoniMax7600I ATM, ensure that the physical environment, including the temperature and humidity, meets the requirements. T
3. Environmental specification, dimension and weight below:

Operating	Temperature Range	-35°C ~ +40°C (-31°F ~ 104°F)
	Maximum temperature change rate	-10°C / hour (14°F / hour)
Storage	Temperature Range	-10°C ~ 50°C (14°F ~ 122°F)
	Maximum temperature change rate	15°C /hour (59°F /hour)
Operating	Relative Humidity	15% ~ 100%
Storage	Relative Humidity	10% ~ 90%
Dimension (HXWXD)		62.64"(1591mm) x 41.26"(1048mm) x 37.40"(950mm)

Weight	1. Standard (with EDU-P): 2755lbs(1250Kg) 2. Option (with BNA): 2910lbs(1320Kg)

Placement of the MoniMax7600I ATM

The MoniMax7600I ATM can be placed on a new or existing concrete island (Fig.10).

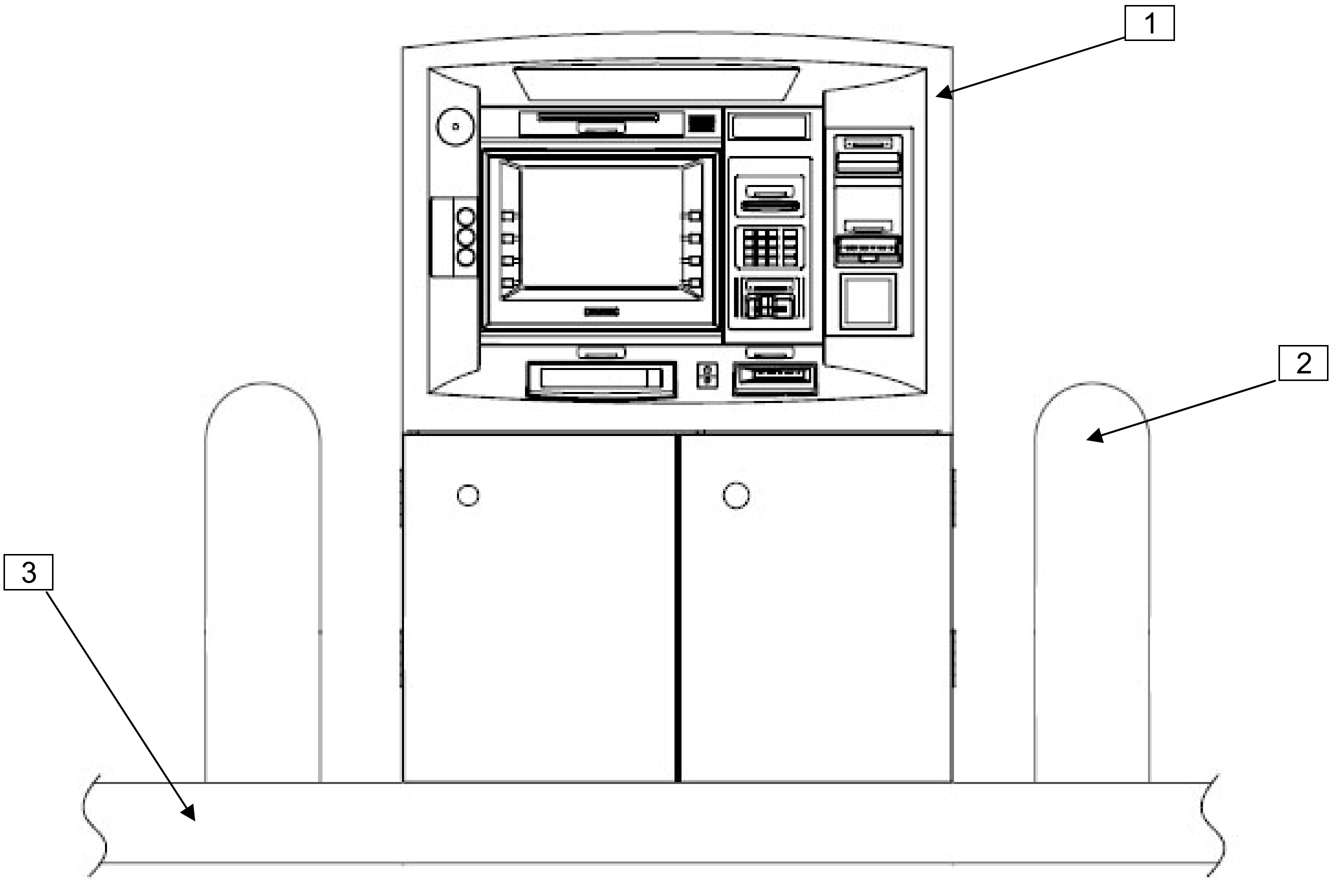
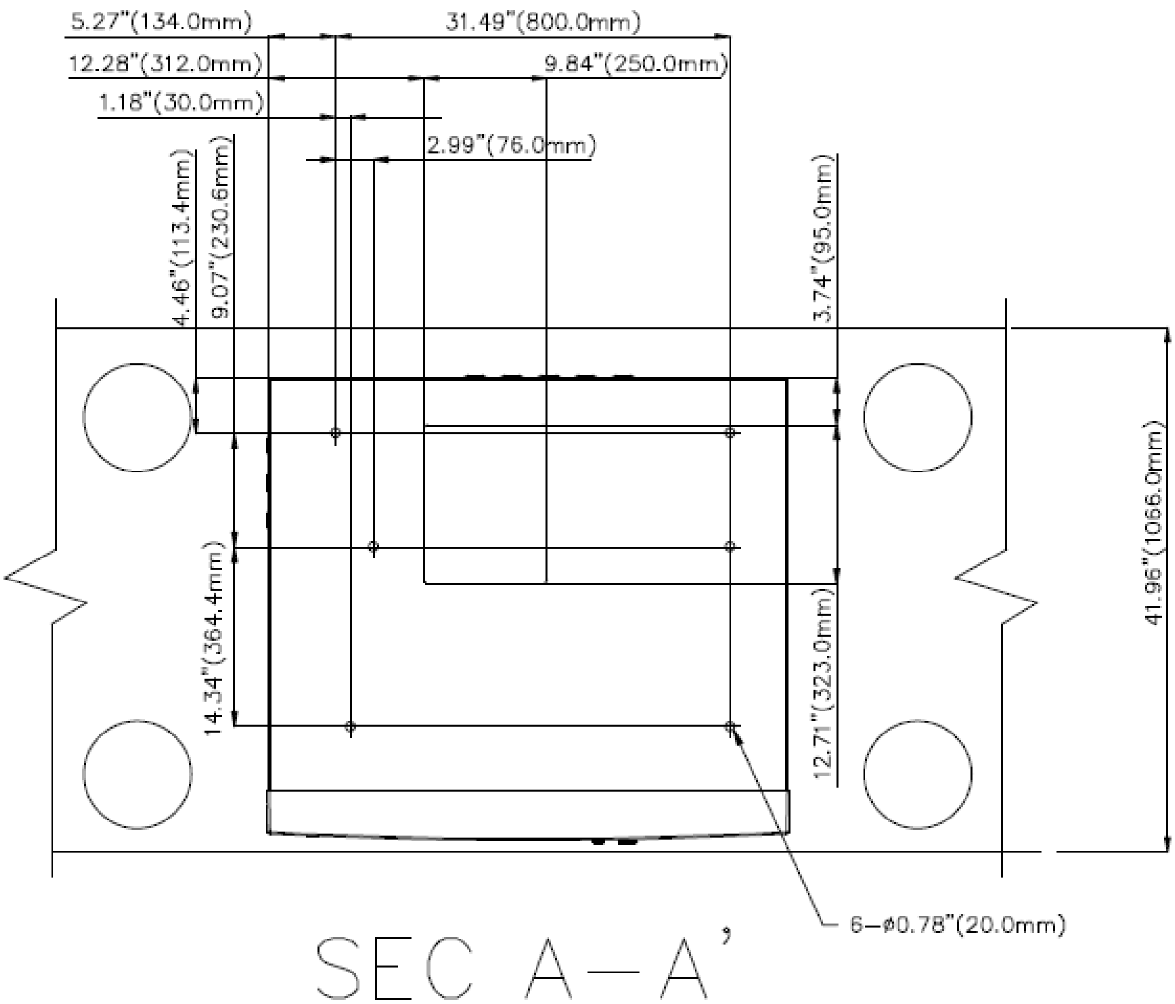


Fig.10 Placement of the MoniMax7600I ATM

1	MoniMax7600I ATM
2	Guard posts (4)
3	New or existing concrete island (Concrete island to be flat and level in area of ATM.)

Installation and Service Clearance

Following diagram is describing the areas required for installing and servicing the MX7600I



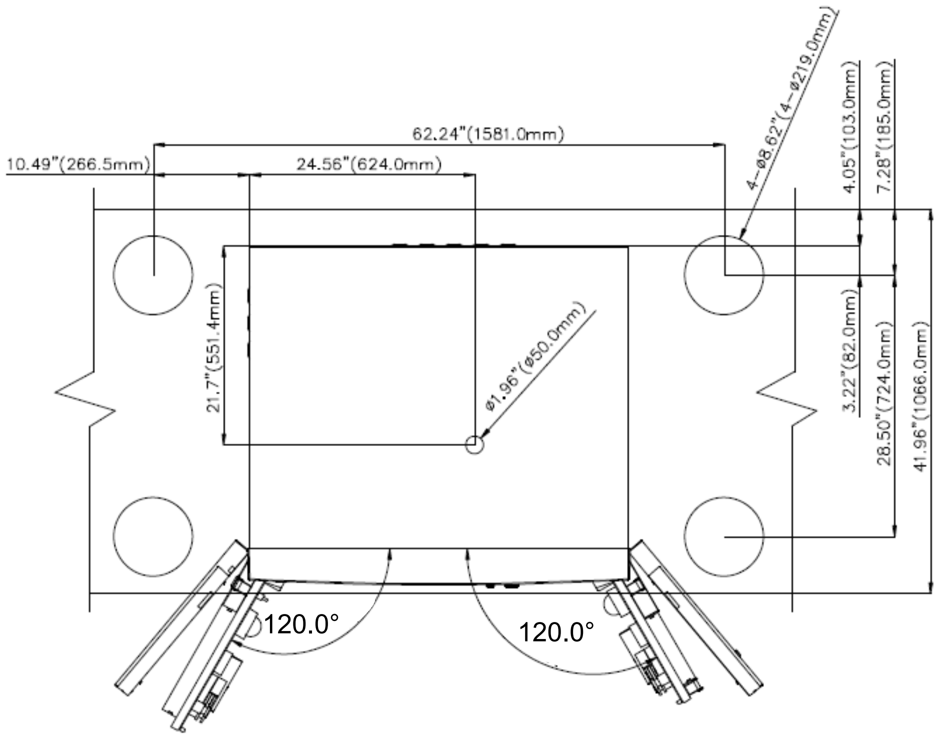


Fig.11 (a) Service Clearance for the MoniMax7600I ATM: Service Position - Plan View

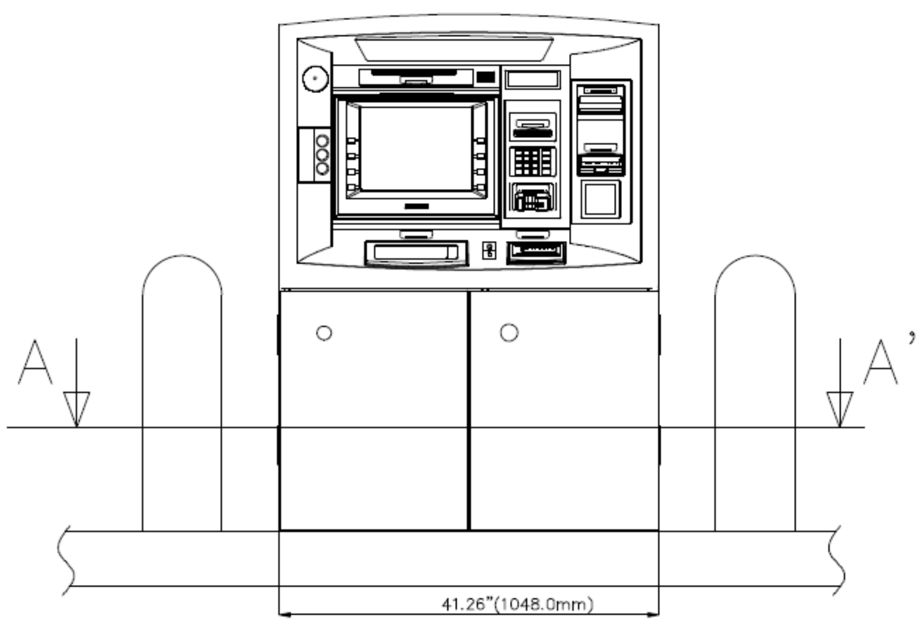


Fig.11 (b) Service Position - Front View

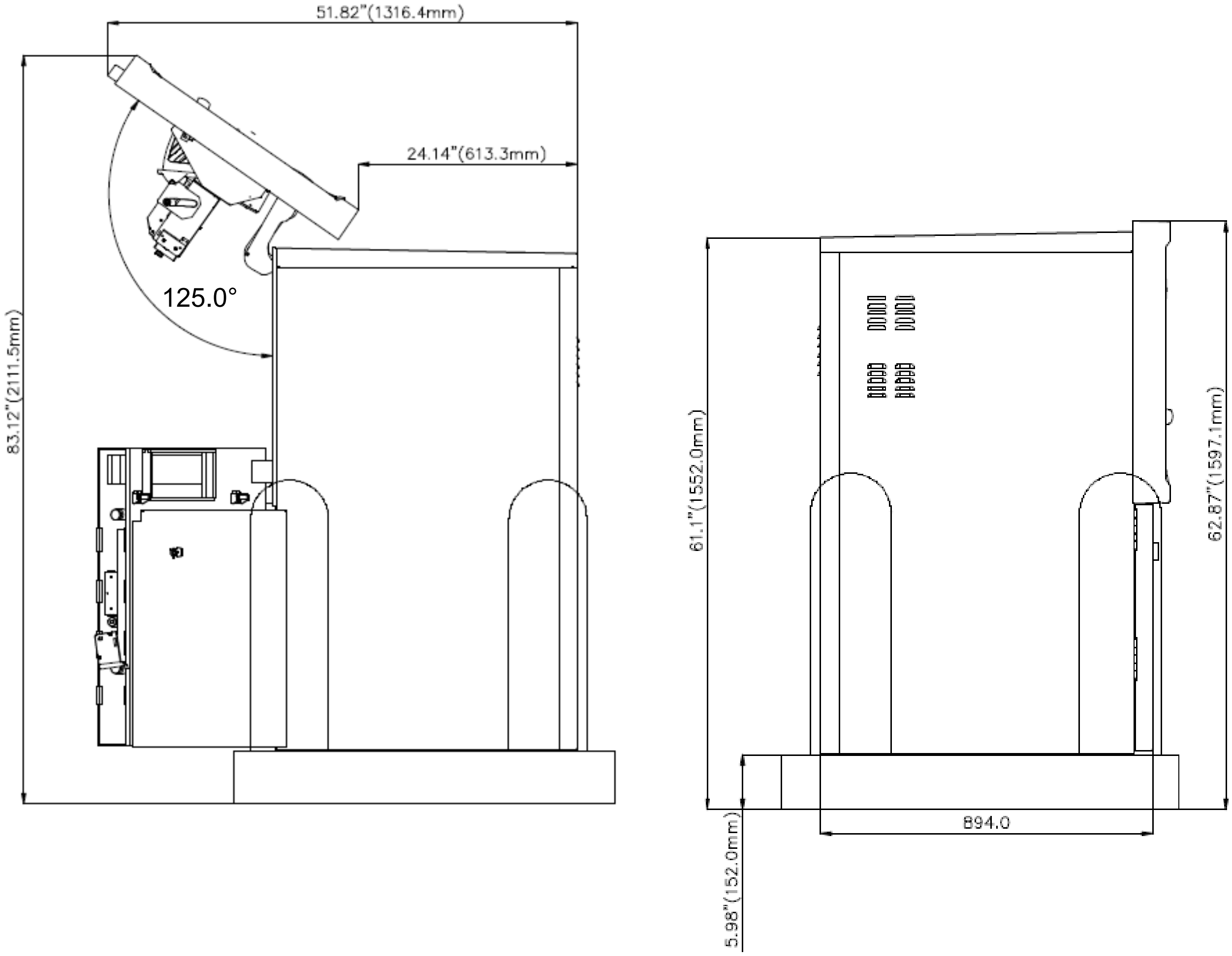
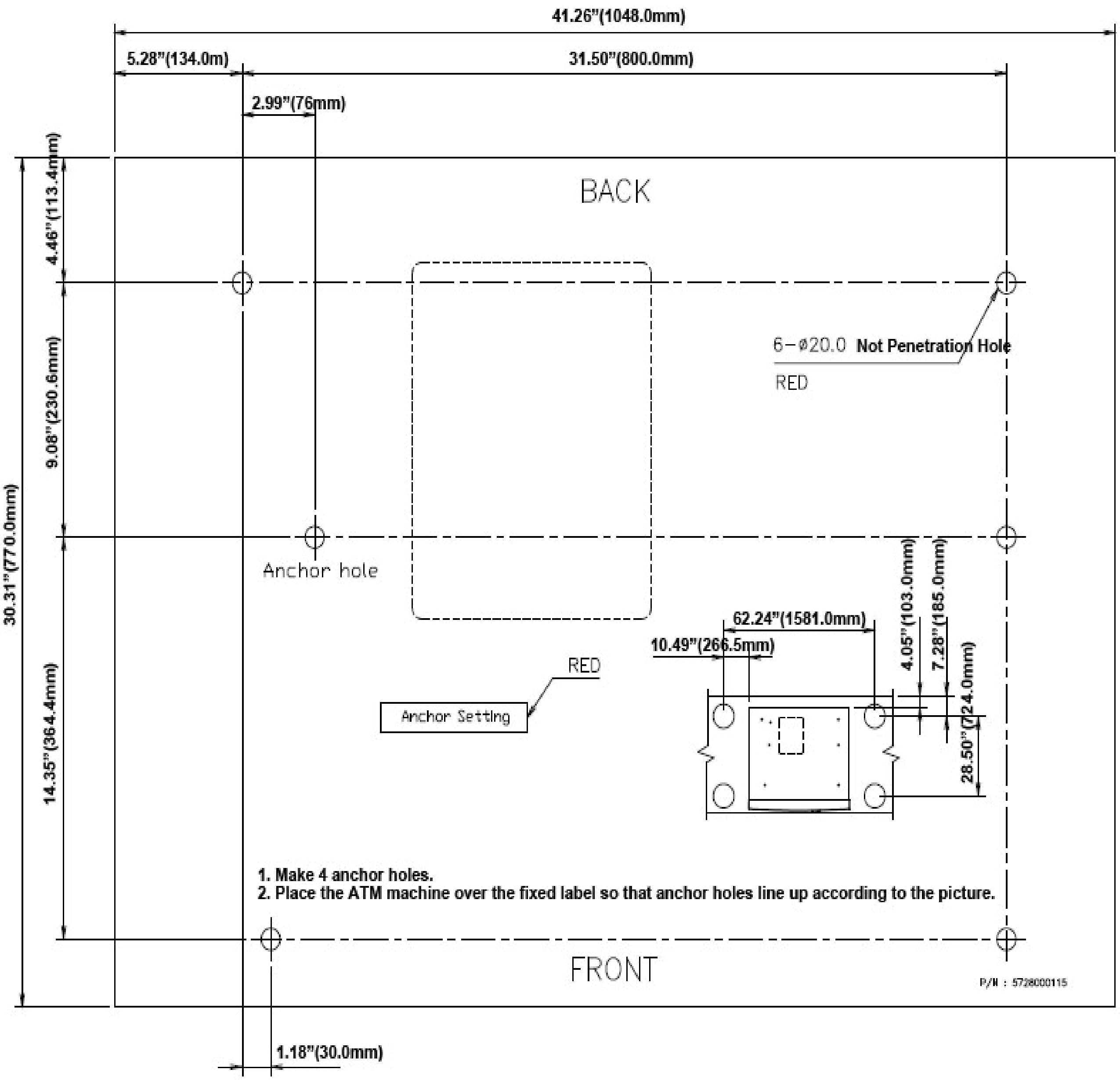


Fig.11 (c) Service Position - Side View

Anchor Diagram



Topper Installation

The following procedures detail how to install the topper on the ATM.

● Insert the lower front door key into the lock on the lower front door.



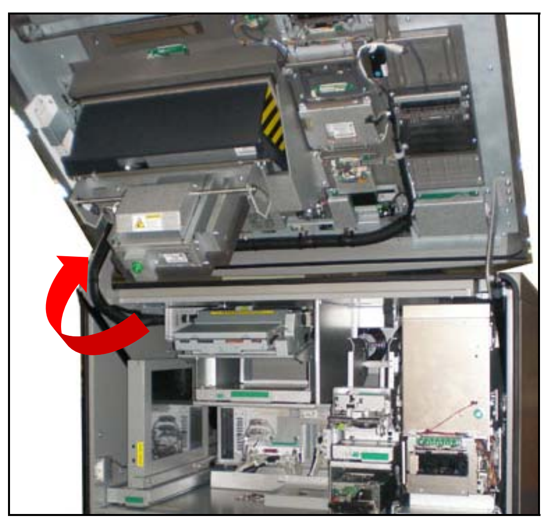
● Turn the key clockwise and open the lower front door.



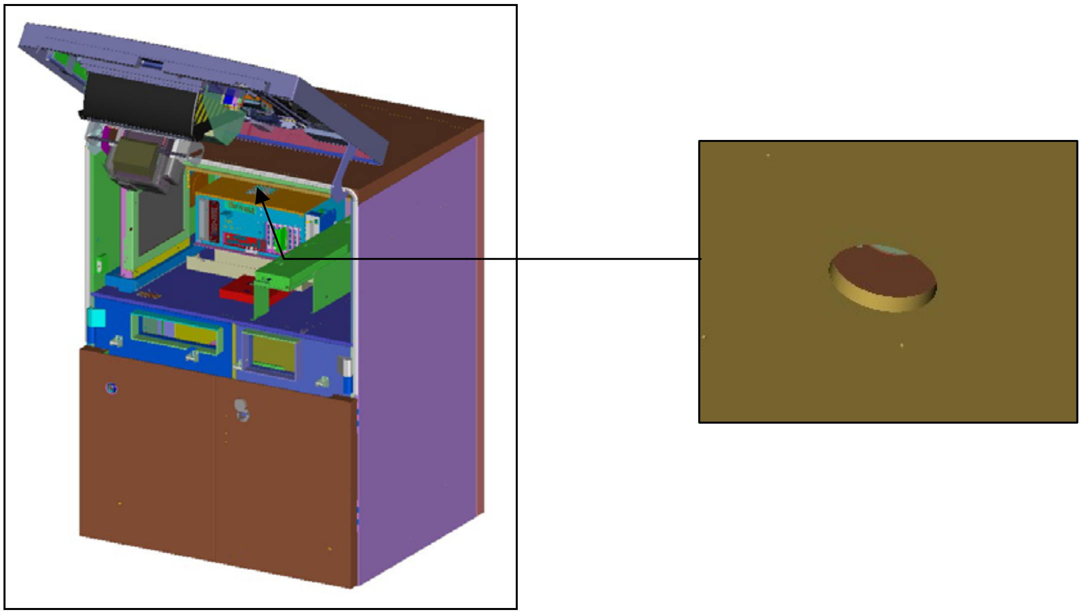


● Then open the upper front panel pulling it upward.

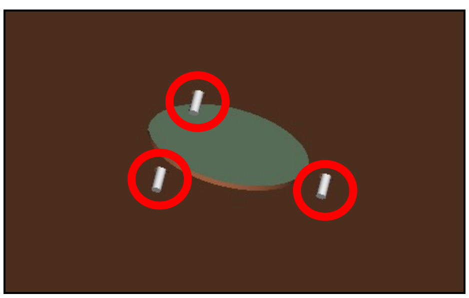


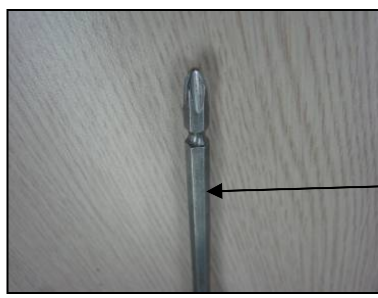


● There is a topper cover inside the ATM.

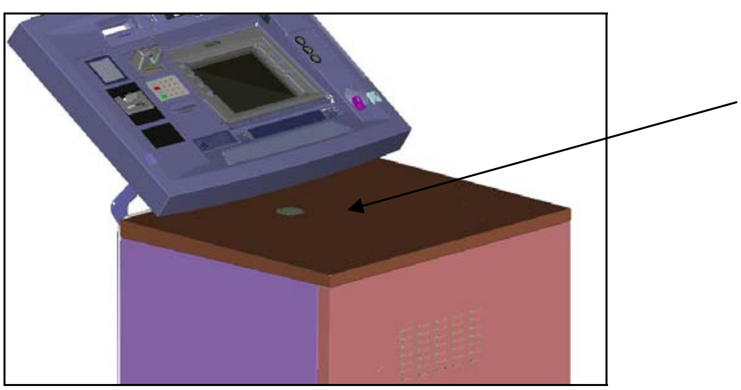


● Remove 3 nuts around the topper cover through inside the ATM using nut driver.





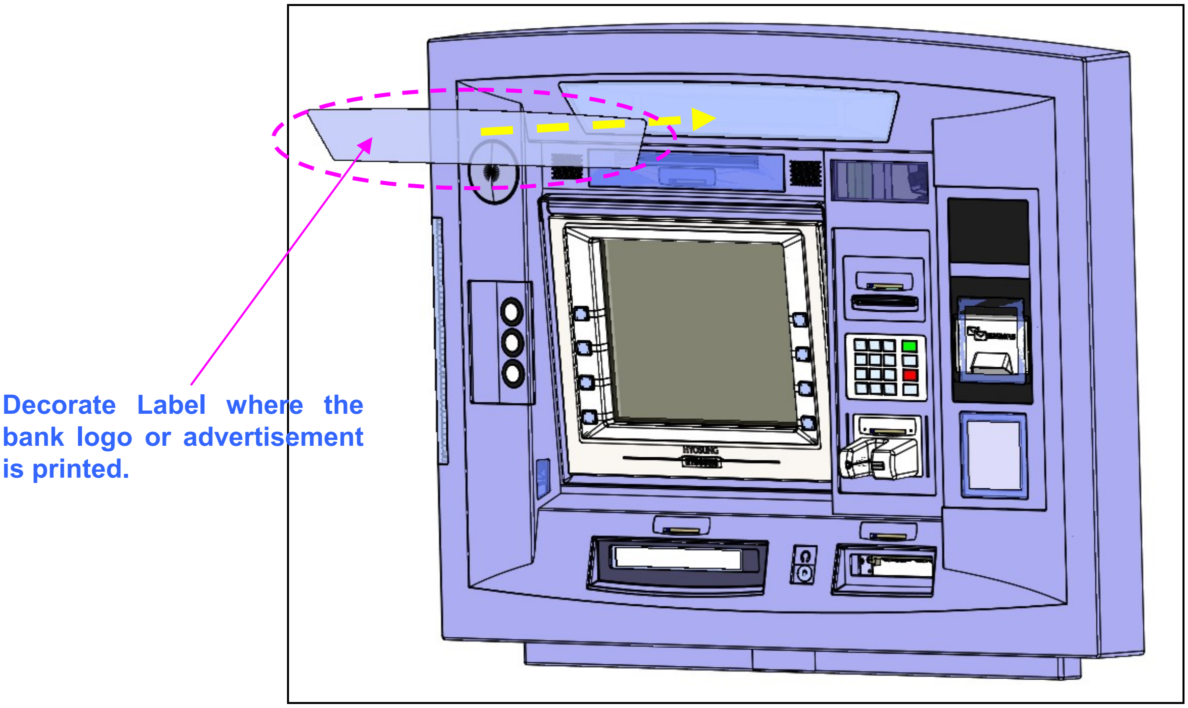
● Then remove topper cover and install the topper on the ATM.



Insert the topper cable into the hole which is shown after removing topper cover to install the topper.

ATM Signage

Be supposed to paste the decoration label on the light, where the bank logo or advertisement is printed.



Dimension of ATM Signage

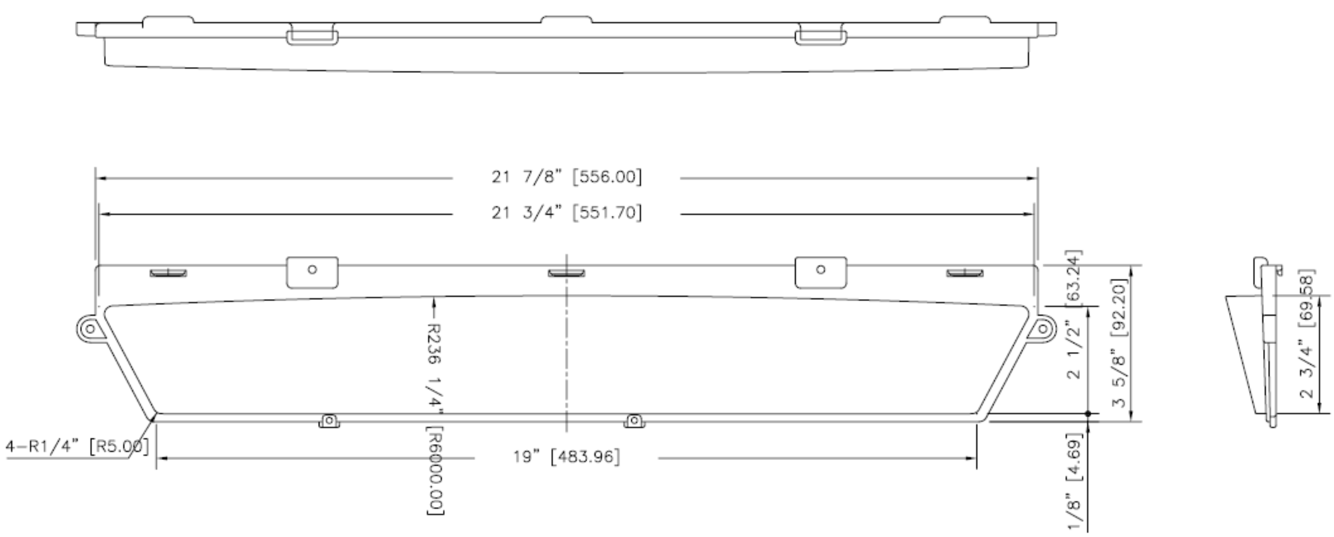


Fig.13 ATM Signage Dimension

PRECAUTIONS

MX7600I has system battery back up units as optional itself to grantee customers transaction safety when losing power status. This function will proceed automatic safe shut down either.

But we are recommending to use UPS system for power sourcing to ATM.

This is basic requirements before turn on the system.

- Check the OUTPUT voltage of power source before inserting ATM power cable into it.
- Dispatch all the unit holder tapes and a desiccant pack form ATM
- This machine should be connected to a dedicated power circuit.
  This circuit must consist of **LINE**, **NEUTRAL** and **GROUND** leads connected directly to the power circuit breaker panel. This circuit cannot be shared with any other equipment.
- Make sure that the outlet of power at installation site should be grounded by using of meter.
  It is ok that the voltage measurement between mutual and ground lead in outlet is **less than 5.0V**
- You can find out that there are 2 types of cables outside the safe door.
  - Main Power Supply Cable
  - Communication cable.
- Connect power cables and communication cable properly.

WARNING!!

1. You must provide an electrical circuit with a third-wire grounding conductor. A machine without a ground connection is a safety hazard and will not work correctly.

2. To avoid the risk of severe personal injury or death, use only a qualified electrical contractor to perform work on electrical circuits.